

LDRD Biographical Sketch Template

Name Peter D. Barnes, Jr.
Title Scientist
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(a) Professional Preparation

A list of the individual's undergraduate and graduate education and postdoctoral training as indicated below:

Undergraduate Institution(s)	Yale University	Major Physics	B.S. 1987, awarded with Distinction
Graduate Institution(s)	U. C. Berkeley	Major Physics	M.A. 1990, Ph.D. 1996
Postdoctoral Institution(s)	LLNL	Area Physics	1996-1998

(b) Appointments

1998-Present Staff Scientist, LLNL
2005-2010 Special Appointment to Graduate Faculty, Purdue University

(c) Awards

LLNL Global Security Gold Award, 2008
LLNL, Physics and Advanced Technology Award, 2006
LLNL Defense and Nuclear Technologies Award, 1999
Department of Energy, Defense Programs Award of Excellence, 1998

(d) Publications

P. D. Barnes, Jr., J. M. Brase, T. W. Canales, M. M. Damante, M. A. Horsley, D. R. Jefferson, and R. A. Soltz, *Livermore Computer Network Simulation Program*, in SimuTools 2012, the 5th International ICST Conference on Simulation Tools and Techniques (Desenzano, Italy, 2012).

P. D. Barnes, Jr., J. M. Brase, T. W. Canales, M. M. Damante, M. A. Horsley, D. R. Jefferson, and R. A. Soltz, *A Benchmark Model for ns3*, in WNS3 2012: workshop on ns3, held in conjunction with SimuTools 2012, the 5th International ICST Conference on Simulation Tools and Techniques (Desenzano, Italy, 2012).

P. Adamson, *et al.* (151 others), the MINOS Experiment, *Neutrino and anti-neutrino inclusive charged-current cross section measurements with the MINOS near detector*, Physical Review D, **81**, 7, 072002 (Apr 1, 2010). <http://dx.doi.org/10.1103/PhysRevD.81.072002>

N. Graf, *et al.* (61 others), the MIPP Experiment, *Charged kaon mass measurement using the Cherenkov effect*, Nuclear Instruments and Methods A, **615**, 1, 27 (Mar 21, 2010).
<http://dx.doi.org/10.1016/j.nima.2009.12.082>

S. Osprey, *et al.* (159 others), the MINOS Experiment, *Sudden stratospheric warmings seen in MINOS deep underground data*, Geophysical Research Letters, **36**, L05809 (Mar 7, 2009).
<http://dx.doi.org/10.1029/2008GL036359>

D. S. Akerib, *et al.* (23 others), *Design and performance of a modular low-radioactivity readout systems for cryogenic detectors in the CDMS experiment*, Nuclear Instruments and Methods A, **591**, 3, 476 (Jul 1, 2008). <http://dx.doi.org/10.1016/j.nima.2008.03.103>

P. D. Barnes, Jr., *et al.* (15 others), *Passive detection of shielded SNM: system description*, Lawrence Livermore National Laboratory Technical Report, UCRL-TR-235670 (Oct 2007).

R. Abusaidi, *et al.* (55 others), the CDMS Experiment, *Exclusion limits on the WIMP-nucleon cross section from the Cryogenic Dark Matter Search*, Physical Review Letters, **84**, 25, 5699 (June 19, 2000). <http://dx.doi.org/10.1103/PhysRevLett.84.5699>

N. S. P. King, *et al.* (39 others), *An 800 MeV proton radiography facility for dynamic experiments*, Nuclear Instruments and Methods A, **424**, 1, 84 (Nov 3, 1999).
[http://dx.doi.org/10.1016/S0168-9002\(98\)01241-8](http://dx.doi.org/10.1016/S0168-9002(98)01241-8)

O. Alford, *et al.* (15 others), *The Scrounge-atron: a phased approach to the Advanced Hydrotest Facility utilizing proton radiography*, in Proceedings of the 1999 Particle Accelerator Conference, Mar 27-Apr 2, 1999, New York, edited by A. Luccio and W. MacKay, (IEEE).
<http://dx.doi.org/10.1109/PAC.1999.792787>